

ABSTRACT OF THE DISCLOSURE

An image forming apparatus having a display panel with 1,920 x 480 electron-emitting devices arranged in a matrix and a plurality of fluorescent substances for emitting light by electrons emitted by these electron-emitting devices includes, as one of circuits for driving the display panel, an I/P-converter for converting an interlaced scanning signal input at an NTSC image frame rate by a double frame rate and converting the signal into a non-interlaced scanning signal. The signal is controlled to define the maximum time interval during which the fluorescent substances are continuously irradiated with electrons from the electron-emitting devices in units of rows in line-sequential scanning, so as not to substantially degrade the linearity of the luminance characteristic of the fluorescent substances that changes depending on an electron irradiation time for the fluorescent substances.